

METHOD FOR IMPLEMENTING A MULTI-LEVEL SYSTEM MODEL
FOR DETERMINISTICALLY HANDLING SELECTED DATA

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ABSTRACT OF THE DISCLOSURE

10 A method for implementing a multi-level system model for
deterministically handling selected data comprises a picokernel module that
invokes an isochronous scheduler to select, schedule, and execute active
isochronous processes on an electronic device in response to a cycle start
signal from an isochronous clock. The active isochronous processes may
selectively set plesiochronous flags to thereby designate corresponding
plesiochronous processes as active plesiochronous processes. Once all active
isochronous processes have been executed in a given isochronous cycle, then
15 the picokernel may invoke a plesiochronous scheduler to select, schedule,
and execute any active plesiochronous processes on the electronic device.